



# TAMIL NADU OPEN UNIVERSITY

Chennai - 15

School of Computer Science

HOME / SPOT ASSIGNMENT

Programme Code No : 171  
Programme Name : Bachelor of Computer Applications  
Course Code & Name : BCA-07 & Windows Programming  
Batch : AY 2020-21 (2<sup>nd</sup> Year)  
No.of Assignment : One Assignment for Each 2 Credits  
Maximum CIA marks : 15 (Average of Total No. of Assignments)

## ASSIGNMENT - 1

Max: 15 marks

**Answer any one of the question not exceeding 1000 words**

1. What are the components present in the properties window and explain.
2. Explain the keyboard and mouse events with illustration.
3. Write a note on the following :
  - (a) Error Objects
  - (b) Creating EXE files.
  - (c) On Goto statement.

## ASSIGNMENT - 2

Max : 15 marks

**Answer any one of the question not exceeding 1000 words**

1. Discuss the steps to access an external database with data control.
2. Explain about different data types in VB.
3. Explain with neat diagram IDE in VB.

## ASSIGNMENT - 3

Max : 15 marks

**Answer any one of the question not exceeding 1000 words**

1. With suitable program, explain FOR and DO loops in detail.
2. Explain the elements of visual basic integrated development environment.
3. What are the numeric and string functions? Explain in detail.



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Programme Code No : 171  
Programme Name : Bachelor of Computer Applications  
Course Code & Name : BCA-08 & Multimedia  
Batch : AY 2020-21 (2<sup>nd</sup> Year)  
No.of Assignment : One Assignment for Each 2 Credits  
Maximum CIA marks : 15 (Average of Total No. of Assignments)

## ASSIGNMENT - 1

Max: 15 marks

**Answer any one of the question not exceeding 1000 words**

- 1.Explain Software requirements for Multimedia in detail.
- 2.Explain various multimedia components in detail
- 3.Justify how Multimedia useful in Publishing Industry.

## ASSIGNMENT - 2

Max : 15 marks

**Answer any one of the question not exceeding 1000 words**

- 1.Explain in detail about the audio side of multimedia.
- 2.Discuss the steps involved in planning for Creation of Multimedia building blocks.
3. With illustration, explain the usage of hypertext in detail.

## ASSIGNMENT - 3

Max : 15 marks

**Answer any one of the question not exceeding 1000 words**

1. Explain about the hardware for Multimedia in details.
2. Justify how multimedia useful in business.
3. Discuss about the Multimedia in Business.



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Programme Code No : 171  
Programme Name : Bachelor of Computer Applications  
Course Code & Name : BCA-09 & Relational Data Base Management System  
Batch : AY 2020-21 (2<sup>nd</sup> Year)  
No.of Assignment : One Assignment for Each 2 Credits  
Maximum CIA marks : 15 ( Average of Total No. of Assignments )

Max: 15 marks

## ASSIGNMENT - 1

**Answer any one of the question not exceeding 1000 words**

1. Discuss the steps involved in adding, deleting the fields in a table.
2. Explain Filter and sorting records in Access.
3. Illustrate First Normal Form and Second Normal Form in detail.

## ASSIGNMENT - 2

Max: 15 marks

**Answer any one of the question not exceeding 1000 words**

1. Explain the following SQL Statements:  
(a) SELECT (b) UPDATE (c) DELETE (d) GRANT (e) CREATE.
2. Explain with example filter and sorting records in detail.
3. List out SQL commands related to security and explain in detail.



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HOME / SPOT ASSIGNMENT

Programme Code No : 171  
Programme Name : Bachelor of Computer Applications  
Course Code & Name : BCA-10 & Computer Network  
Batch : AY 2020-21 (2<sup>nd</sup> Year)  
No.of Assignment : One Assignment for Each 2 Credits  
Maximum CIA marks : 15 (Average of Total No. of Assignments)

Max : 15 marks

## ASSIGNMENT - 1

**Answer any one of the question not exceeding 1000 words**

1. What is Broadband ISDN? Explain in detail.
2. What are the transmission modes? Explain in detail.
3. Explain Twisted Pair and Coaxial cable in detail.

## ASSIGNMENT - 2

Max: 15 marks

**Answer any one of the question not exceeding 1000 words**

1. Discuss the working principle of Bridges in detail.
2. Explain any one routing algorithm with suitable example.
3. Explain in detail about E-mail system.

## ASSIGNMENT - 3

Max: 15 marks

**Answer any one of the question not exceeding 1000 words**

1. Explain ALOHA Protocols in detail
2. Explain the following :
  - (a) Repeaters
  - (b) Switches.
3. Explain the working principle of Repeaters in detail.



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HOME / SPOT ASSIGNMENT

Programme Code No : 171  
Programme Name : Bachelor of Computer Applications  
Course Code & Name : BCA-11 & Introduction to Software Engineering  
Batch : AY 2020-21 (2<sup>nd</sup> Year)  
No.of Assignment : One Assignment for Each 2 Credits  
Maximum CIA marks : 15 (Average of Total No. of Assignments)

Max: 15 marks

## ASSIGNMENT - 1

Answer any one of the question not exceeding 1000 words

1. What is Software prototyping? Explain in detail.
2. What is validation? Explain with example. Explain about Project Tracking?
3. What is Risk Management? Write its significance.

## ASSIGNMENT - 2

Max: 15 marks

Answer any one of the question not exceeding 1000 words

1. Explain White Box test and Block box testing in detail.
2. Explain the steps involved in Quality Assurance Activities in detail.
3. What is Test Case? How do you design it?



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## HOME / SPOT ASSIGNMENT

Programme Code No : 171  
 Programme Name : Bachelor of Computer Applications  
 Course Code & Name : BCA-12 & Computer Oriented Numerical Methods  
 Batch : AY 2020-21 (2<sup>nd</sup> Year)  
 No.of Assignment : One Assignment for Each 2 Credits  
 Maximum CIA marks : 15 (Average of Total No. of Assignments)

### ASSIGNMENT - 1

Max: 15 marks

Answer any one of the question not exceeding 1000 words

1. If  $f(3) = 5$  and  $f(5) = 3$ , what is the form of  $f(x)$  by Lagrange's Formula?
2. Form the difference table for the following data.

$x$	$50^\circ$	$51^\circ$	$52^\circ$	$53^\circ$
$y = \cos x$	0.6428	0.6293	0.6157	0.6018

3. Write the Lagrange's interpolation formula and its uses.

### ASSIGNMENT - 2

Max : 15 marks

Answer any one of the question not exceeding 1000 words

1. Find the value of  $x$  when  $y = 85$ , using Lagrange's formula from the following table.

$x$	2	5	8	14
$y$	94.8	87.9	81.3	68.7

2. A function  $f(x)$  is given by the following table. Using Newton's Forward Interpolation formula, find  $y$ ,  $x = 43$ .

$x$	40	50	60	70	80	90
$y$	184	204	226	250	276	304

3. Find  $y(0.1)$  given  $y'' = y^3, y(0) = 10, y'(0) = 5$  by R.K. method.

### ASSIGNMENT - 3

Max : 15 marks

**Answer any one of the question not exceeding 1000 words**

1. Describe any one Iterative method of solving systems of simultaneous linear equations.
2. Find the positive root of the equation  $x - \cos x = 0$  correct to 2 places of decimal by bisection method.
3. Explain the differences between Direct and Indirect methods of solving system of equations.